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What is claimed is:

- 1. A process for preparing nitrogen trifluoride, comprising fluorination of nitrogen-containing compounds with elemental fluorine, wherein said fluorination is carried out in anhydrous hydrogen fluoride at a temperature of -20°C to 0°C and with the molar ratio of said fluorine to said starting nitrogen-containing compounds of not over 3.
- 2. The process of claim 1, wherein the concentration of said starting nitrogencontaining compounds in said anhydrous hydrogen fluoride is 20—50% by weight.
- 3. The process of claim 1, wherein said starting nitrogen-containing compounds are selected from the group comprising urea and products of decomposition thereof.
- 4. The process of claim 1, wherein said fluorination till the moment of appearance of nitrogen trifluoride in waste gases formed as a result of said fluorination is carried out preferably at a temperature of -20°C to -10°C and with the molar ratio of said fluorine to said starting nitrogen-containing compounds of not over 0.5.
- 5. The process of claim 4, wherein after the appearance of said nitrogen trifluoride in said fluorination waste gases the said fluorination is carried out preferably at a temperature of -15°C to 0°C.